The Programming Initiative

Lowell Public School Committee Meeting 01.18.2023

The TPI Team 2022–23 School Year



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Advisor

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Co-founder
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The TPI Team 2022–23 School Year



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Senior

Why create TPI?

- There were initially a lack of support for computer science (CS)
 - H Java Programming
 - H Web Development
 - H Intro to Programming

What are our objectives?

- Provide an opportunity to learn and incorporate CS outside of class
 - Adv Information Technology (<u>After Dark</u>)
- Foster a safe environment for anyone interested in CS
- Inform members about different <u>CS/STEM opportunities</u>
- Expand Lowell High representation in CS

How did we recruit members?

- Surveyed student interest schoolwide (May–June 2022)
- Posted on Google Classrooms schoolwide (e.g. College and Career Center)
- Passed around flyers with help from Lowell High teachers and <u>Project LEARN</u>
- Hosted Flex Block to pull interest for the club from within school hours

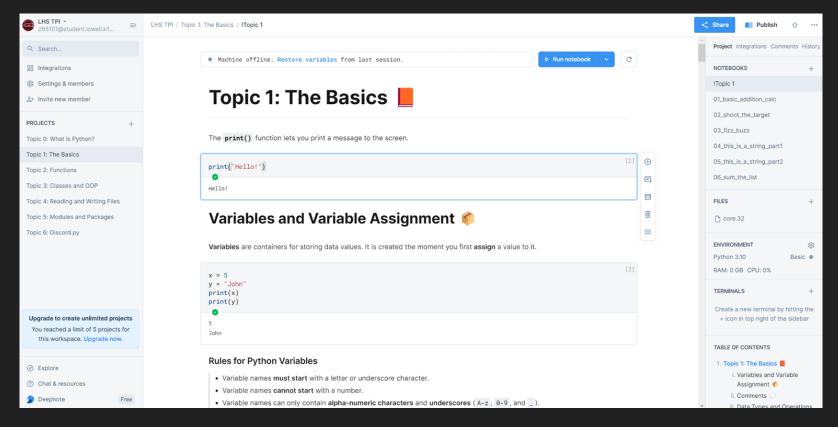
So how does the afterschool club work?...





Source: Lowell Sun

Every Friday 2:40–3:45 pm, we teach!



Technology Used: <u>Deepnote</u>

Interactive activities and hands-on exercises.



Source: Lowell Sun

Having students go on stage to help us demonstrate concepts!

What our members are working on!

- **COVERED SO FAR**: Core CS concepts
- **COMING UP**: Using third-party packages
- END GOAL: Create an application that takes in text commands provided by the user and displays its results after running those commands, such as fetching Instagram data



What is the future of TPI?...

We plan to expand interest in CS through TPI by...

Improve teaching and lesson activities

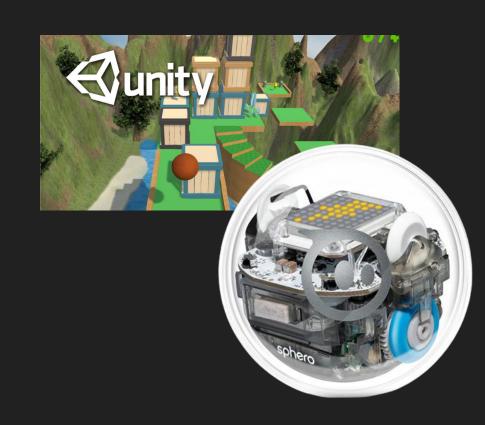
- We are **not** professional teachers
- Utilize teaching opportunities in and out of school

2. Expand leadership team

- Expand meeting times
- Be able to host Flex Blocks for more programming activities

3. Expand our content

 Start creating new types of content made available through fundraising & grants (e.g., coding Sphero Bots and Unity games)



...so that in the future we can...

 Inspire more CS course offerings in the future

 Inspire and help students utilize CS to improve not only Lowell Public Schools, but also the Lowell community!

print("Any questions?")

```
# The Programming
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print("Thank you very much!")

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